

CLAIMS

1. A recording system in which an input device and a recording apparatus are connected to each other via a bus, said input device comprising determination means for  
5 determining whether input content is to be protected, said recording apparatus comprising recording means for recording on a recording medium, together with the content, protection information indicating whether the content is to be protected when being transmitted on the bus based on a  
10 determination result obtained by said determination means.
2. A recording system according to claim 1, wherein said recording means records the protection information in predetermined units of the content.
3. A recording system according to claim 2, wherein the  
15 predetermined unit is 2048 bytes.
4. A recording system according to claim 1, wherein said recording apparatus further comprises encryption means for encrypting the content by using an ID and a recording medium key of the recording medium when said determination means  
20 determines that the content is to be protected.
5. A recording system according to claim 1, wherein said recording apparatus further comprises encryption means for encrypting the content by using at least a recording medium key of the recording medium when said determination means  
25 determines that the content is not to be protected.

6. A recording system according to claim 1, wherein each of said input device and said recording apparatus further comprises authentication means for authenticating each other.

7. A recording system according to claim 1, wherein:

5       said input device further comprises first encryption means for encrypting the content before being sent to the bus when said determination means determines that the content is to be protected; and

10       said recording apparatus further comprises second encryption means for encrypting the content before being recorded by said recording means when said determination means determines that the content is to be protected.

8. A recording system according to claim 7, wherein said first encryption means prohibits the content from being  
15 encrypted before being sent to the bus when said determination means determines that the content is not to be protected.

9. A recording method for a recording system in which an input device and a recording apparatus are connected to each  
20 other via a bus, wherein:

      said input device determines whether input content is to be protected; and

      said recording apparatus records on a recording medium, together with the content, protection information indicating  
25 whether the content is to be protected when being

transmitted on the bus based on a determination result.

10. A recording apparatus for recording information on a recording medium, comprising:

authentication means for conducting mutual

5 authentication with a first apparatus connected to said recording apparatus via a bus;

decryption means for decrypting content encrypted with a first encryption method and supplied from the first apparatus via the bus; and

10 recording means for recording on the recording medium, together with the content decrypted by said decryption means, protection information indicating that the content is to be protected when being transmitted on the bus.

11. A recording apparatus according to claim 10, further  
15 comprising encryption means for encrypting the decrypted content with a second encryption method.

12. A recording apparatus according to claim 11, wherein said encryption means encrypts the decrypted content by using an ID and a recording medium key of the recording  
20 medium.

13. A recording apparatus according to claim 10, wherein said recording means records the content together with protection information indicating that the content is not to be protected when being transmitted on the bus when the  
25 content supplied from the first apparatus via the bus is not

encrypted with the first encryption method.

14. A recording method for a recording apparatus which records information on a recording medium, comprising:

an authentication step of conducting mutual

5 authentication with a first apparatus connected to said recording apparatus via a bus;

a decryption step of decrypting encrypted content supplied from the first apparatus via the bus; and

a recording step of recording on the recording medium,

10 together with the content decrypted by processing of said decryption step, protection information indicating that the content is to be protected when being transmitted on the bus.

15. A recording medium for recording therein a computer-readable program for a recording apparatus which records

15 information on a recording medium, said computer-readable program comprising:

an authentication step of conducting mutual authentication with a first apparatus connected to said recording apparatus via a bus;

20 a decryption step of decrypting encrypted content supplied from the first apparatus via the bus; and

a recording step of recording on the recording medium, together with the content decrypted by processing of said decryption step, protection information indicating that the

25 content is to be protected when being transmitted on the bus.

16. A program for a recording apparatus which records information on a recording medium, comprising:

an authentication step of conducting mutual authentication with a first apparatus connected to said

5 recording apparatus via a bus;

a decryption step of decrypting encrypted content supplied from the first apparatus via the bus; and

a recording step of recording on the recording medium, together with the content decrypted by processing of said  
10 decryption step, protection information indicating that the content is to be protected when being transmitted on the bus.

17. An input device into which content is input, comprising:

authentication means for conducting mutual  
15 authentication with a recording apparatus connected to said input device via a bus;

first encryption means for encrypting the content with a first encryption method according to whether the input content is to be protected when being transmitted on the  
20 bus; and

supply means for supplying the content encrypted by said first encryption means to said recording apparatus via the bus.

18. An input device according to claim 17, further  
25 comprising second encryption means for encrypting the

content encrypted by said first encryption means with a second encryption method.

19. An input device according to claim 18, wherein one of said first encryption means and said second encryption means  
5 encrypts the content by using an ID and a recording medium key of a recording medium.

20. An input method for an input device into which content is input, comprising:

an authentication step of conducting mutual  
10 authentication with a recording apparatus connected to said input device via a bus;

an encryption step of encrypting the content according to whether the input content is to be protected when being transmitted on the bus; and

15 a supply step of supplying the content encrypted by processing of said encryption step to said recording apparatus via the bus.

21. A recording medium for recording therein a computer-readable program for an input device into which content is  
20 to be input, said computer-readable program comprising:

an authentication step of conducting mutual authentication with a recording apparatus connected to said input device via a bus;

an encryption step of encrypting the content according  
25 to whether the input content is to be protected when being

transmitted on the bus; and

a supply step of supplying the content encrypted by processing of said encryption step to said recording apparatus via the bus.

5 22. A program for an input device into which content is input, comprising:

an authentication step of conducting mutual authentication with a recording apparatus connected to said input device via a bus;

10 an encryption step of encrypting the content according to whether the input content is to be protected when being transmitted on the bus; and

a supply step of supplying the content encrypted by processing of said encryption step to said recording  
15 apparatus via the bus.

23. A playback system in which a playback apparatus and an output device are connected to each other via a bus,

said playback apparatus comprising:

20 playback means for playing back from a recording medium content and protection information indicating whether the content is to be protected when being transmitted on the bus; and

transmission control means for controlling the transmission of the content to said output device on the bus  
25 based on the protection information played back by said

playback means,

said output device comprising output means for outputting the content transmitted by said transmission control means to an external source.

5 24. A playback system according to claim 23, wherein the protection information is recorded in predetermined units of the content.

25. A playback system according to claim 24, wherein the predetermined unit is 2048 bytes.

10 26. A playback system according to claim 23, wherein said playback apparatus further comprises decoding means for decoding the content played back by said playback means.

27. A playback system according to claim 23, wherein said playback apparatus further comprises authentication means  
15 for authenticating the device on the bus.

28. A playback system according to claim 27, wherein:

said playback apparatus further comprises encryption means for encrypting the content before being sent to the bus when the protection information indicates that the

20 content is to be protected when being transmitted to the bus and when said output device on the bus is authenticated by said authentication means; and

said output device further comprises first decryption means for decrypting the content encrypted by said  
25 encryption means.



29. A playback system according to claim 28, wherein said output device further comprises second decryption means for decrypting the content decrypted by said first decryption means by using an ID and a recording medium key of the recording medium.

30. A playback system according to claim 27, wherein said transmission control means prohibits the content from being sent to the device on the bus when the protection information indicates that the content is to be protected when being transmitted on the bus and when the device on the bus is not authenticated by said authentication means.

31. A playback method for a playback system in which a playback apparatus and an output device are connected to each other via a bus, wherein:

said playback apparatus plays back from a recording medium content and protection information indicating whether the content is to be protected when being transmitted on the bus, and controls the transmission of the content to said output device on the bus based on the played back protection information; and

said output device outputs the content sent from said playback apparatus to an external source.

32. A playback apparatus for playing back content from a recording medium and for supplying the content to a first apparatus via a bus, comprising:

playback means for playing back from the recording medium the content and protection information indicating whether the content is to be protected when being transmitted on the bus; and

5            output control means for controlling the output of the content to the first apparatus via the bus based on the protection information played back by said playback means.

33. A playback apparatus according to claim 32, wherein the protection information is recorded in predetermined units of  
10 the content.

34. A playback apparatus according to claim 33, wherein the predetermined unit is 2048 bytes.

35. A playback apparatus according to claim 32, further comprising:

15            authentication means for authenticating the first apparatus; and

            encryption means for encrypting the content,

            wherein said encryption means encrypts the content before being sent to the bus when the protection information  
20 indicates that the content is to be protected when being transmitted on the bus and when the first apparatus is authenticated by said authentication means.

36. A playback apparatus according to claim 35, wherein said output control means prohibits the content from being  
25 output to the bus when the protection information indicates

that the content is to be protected when being transmitted on the bus and when the first apparatus is not authenticated by said authentication means.

37. A playback method for a playback apparatus which plays  
5 back content from a recording medium and supplies the content to a first apparatus via a bus, comprising:

a playback step of playing back from the recording medium the content and protection information indicating whether the content is to be protected when being

10 transmitted on the bus; and

an output control step of controlling the output of the content to the first apparatus via the bus based on the protection information played back by processing of said playback step.

15 38. A recording medium for recording a computer-readable program therein for a playback apparatus which plays back content from the recording medium and supplies the content to a first apparatus via a bus, said computer-readable program comprising:

20 a playback step of playing back from the recording medium the content and protection information indicating whether the content is to be protected when being transmitted on the bus; and

an output control step of controlling the output of the  
25 content to the first apparatus via the bus based on the

protection information played back by processing of said playback step.

39. A program for a playback apparatus which plays back content from a recording medium and supplies the content to  
5 a first apparatus via a bus, comprising:

a playback step of playing back from the recording medium the content and protection information indicating whether the content is to be protected when being transmitted on the bus; and

10 an output control step of controlling the output of the content to the first apparatus via the bus based on the protection information played back by processing of said playback step.